

# **Adham Ehab Erfan Mahmoud**

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## **Profile**

I am an Electronics and Communication Engineering student at Alexandria University with hands-on experience in digital communication, machine learning, neural network and embedded systems: including AVR and ARM microcontrollers. I am knowledgeable in digital communication and electronics practices and passionate about research and academia. Eager to further develop project management skills and enrich my knowledge.

## **Work experience**

### **RWS**

*2025 – Present*

#### *Labeling*

- Labeled data and do transcripts for audio scripts in both English and Arabic.

### **Outlier**      *2024 – 2025*

#### *AI Model Trainer*

- Trained AI models with focus on mathematics and coding logic, algebra, geometry, trigonometry, calculus, statistics, and problem solving.

### **Aligner**

*2024 – 2025*

#### *AI developer*

- Developing AI models responses (Python scripts , mathematics Olympics , physics)

## **Education**

### **Alexandria University**

*Expected 2026*

Bachelor's Degree in Electronics and Communication Engineering

**GPA : 3.5 Grade :** Excellent

### **Omar bn Hatab School**

*2021*

Thanawya Amma

3<sup>rd</sup> on school

## **Internships**

### **University Center for Career Development (UCCD)**

*2024 – Present*

#### *Research and Development Volunteer*

- Conducting data analysis, authoring technical reports, and participated in research activities.

### **Mind Cloud**

*2023 – Present*

#### *Software Engineer*

- Working with Raspberry Pi, ROS, LDRs, and sensors; designed multilayer PCBs

### **SIEMENS**

*2024 (3 months)*

#### *Embedded Systems Intern*

- Trained on microcontroller basics, startup code, compilation, and UART/SPI protocols.

- Gained exposure to AUTOSAR.

### **Hardware Inventors**

*2023 – 2024*

#### *Hardware Trainee Intern*

- Trained on PCBs design up to 3 layers. route, and consider EMI/ESD

- Used tools like Altium designer and OrCAD.

## **Technical Skills**

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- **Languages:** C, C++
  - **Microcontrollers:** AVR, ARM
  - **Computer :** MATLAB , Latex ,Microsoft office (Excel, Word, PowerPoint),Labview
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## **Certificates**

- **IELTs Academic** Band 6.0
- Embedded Essential course SIEMENS
- CCNA course at ICG
- Programming Fundamentals Coursera

## **Projects**

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- **Voice recognition circuit** : identifying some words independent of the person's voice
- **IC tester** : detecting whether the IC is working or not and identify its number
- **Digital filter** : designed a low pass filter with a variable cut off frequency
- **OFDM** system design on MATLAB
- **MIMO** system 2x2 MATLAB simulated